

CRF Errors Corrected by the STIC System Branch

Serial Number: 08/984900

CRF Processing Date: 5/6/98
 Edited by: AL
 Verified by: _____ (STIC staff)

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☒ Edited the Current Application Data section with the actual current number. The number reported by the applicant was ☒ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☒ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/984,900DATE: 05/06/98
TIME: 12:12:19

INPUT SET: S25558.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

ENTERED

SEQUENCE LISTING

(1) General Information:

(i) APPLICANT: d'Apice, Anthony J.F.
Pearse, Martin J.
Robins, Allan J.
Crawford, Robert J.
Rathjen, Peter D.

(ii) TITLE OF INVENTION: MATERIALS AND METHODS FOR MANAGEMENT OF
HYPERACUTE REJECTION IN HUMAN XENOTRANSPLANTATION

(iii) NUMBER OF SEQUENCES: 33

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Fish & Richardson
(B) STREET: 120 South Sixth Street, Suite 2500
(C) CITY: Minneapolis
(D) STATE: MN
(E) COUNTRY: USA
(F) ZIP: 55402

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30B

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER:
(B) FILING DATE:
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/378,617
(B) FILING DATE: 26-JAN-1995

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Ellinger, Mark S.
(B) REGISTRATION NUMBER: 34,812
(C) REFERENCE/DOCKET NUMBER: 06868/005001

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (612) 335-5070
(B) TELEFAX: (612) 288-9696

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/984,900DATE: 05/06/98
TIME: 12:12:20

INPUT SET: S25558.raw

47

48

49 (2) INFORMATION FOR SEQ ID NO:1:

50

51 (i) SEQUENCE CHARACTERISTICS:

52 (A) LENGTH: 28 base pairs

53 (B) TYPE: nucleic acid

54 (C) STRANDEDNESS: single

55 (D) TOPOLOGY: linear

56

57 (ii) MOLECULE TYPE: DNA

58

59

60

61

62 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

63

64 GTGAATTCAG CCCTGCCTCC TTCTGCAG

28

65

66 (2) INFORMATION FOR SEQ ID NO:2:

67

68 (i) SEQUENCE CHARACTERISTICS:

69 (A) LENGTH: 28 base pairs

70 (B) TYPE: nucleic acid

71 (C) STRANDEDNESS: single

72 (D) TOPOLOGY: linear

73

74 (ii) MOLECULE TYPE: DNA

75

76

77

78

79 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

80

81 GTGAATTCAG GAGAAAATAA TGAATGTC

28

82

83 (2) INFORMATION FOR SEQ ID NO:3:

84

85 (i) SEQUENCE CHARACTERISTICS:

86 (A) LENGTH: 28 base pairs

87 (B) TYPE: nucleic acid

88 (C) STRANDEDNESS: single

89 (D) TOPOLOGY: linear

90

91 (ii) MOLECULE TYPE: DNA

92

93

94

95

96 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

97

98 GTGAATTCGG GATCTGCCTT GTACCACC

28

99

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/984,900DATE: 05/06/98
TIME: 12:12:21

INPUT SET: S25558.raw

100 (2) INFORMATION FOR SEQ ID NO:4:

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102 (i) SEQUENCE CHARACTERISTICS:

103 (A) LENGTH: 28 base pairs

104 (B) TYPE: nucleic acid

105 (C) STRANDEDNESS: single

106 (D) TOPOLOGY: linear

107

108 (ii) MOLECULE TYPE: DNA

109

110

111

112

113 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

114

115 GTGAATTCGA AATCACTGGG AATTTACA

28

116

117 (2) INFORMATION FOR SEQ ID NO:5:

118

119 (i) SEQUENCE CHARACTERISTICS:

120 (A) LENGTH: 28 base pairs

121 (B) TYPE: nucleic acid

122 (C) STRANDEDNESS: single

123 (D) TOPOLOGY: linear

124

125 (ii) MOLECULE TYPE: DNA

126

127

128

129

130 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

131

132 AGGAATTCAG CATGATGCGC ATGAAGAC

28

133

134 (2) INFORMATION FOR SEQ ID NO:6:

135

136 (i) SEQUENCE CHARACTERISTICS:

137 (A) LENGTH: 23 base pairs

138 (B) TYPE: nucleic acid

139 (C) STRANDEDNESS: single

140 (D) TOPOLOGY: linear

141

142 (ii) MOLECULE TYPE: DNA

143

144

145

146 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

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148 TTTGAATTCT TTTTTTTTTT TVN

23

149

150 (2) INFORMATION FOR SEQ ID NO:7:

151

152 (i) SEQUENCE CHARACTERISTICS:

RAW SEQUENCE LISTING PATENT APPLICATION US/08/984,900

DATE: 05/06/98
TIME: 12:12:22

INPUT SET: S25558.raw

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153      (A) LENGTH: 1412 base pairs
154      (B) TYPE: nucleic acid
155      (C) STRANDEDNESS: single
156      (D) TOPOLOGY: linear
157
158      (ii) MOLECULE TYPE: DNA
159
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164      GGGAGAGAAG CAGAGGATGA GGAGAAAATA ATG AAT GTC AAA GGA AGA GTG GTT      114
165      Met Asn Val Lys Gly Arg Val Val
166      1 5
167
168      CTG TCA ATG CTG CTT GTC TCA ACT GTA ATG GTT GTG TTT TGG GAA TAC      162
169      Leu Ser Met Leu Leu Val Ser Thr Val Met Val Val Phe Trp Glu Tyr
170      10 15 20
171
172      ATC AAC AGC CCA GAA GGT TCT TTG TTC TGG ATA TAC CAG TCA AAA AAC      210
173      Ile Asn Ser Pro Glu Gly Ser Leu Phe Trp Ile Tyr Gln Ser Lys Asn
174      25 30 35 40
175
176      CCA GAA GTT GGC AGC AGT GCT CAG AGG GGC TGG TGG TTT CCG AGC TGG      258
177      Pro Glu Val Gly Ser Ser Ala Gln Arg Gly Trp Trp Phe Pro Ser Trp
178      45 50 55
179
180      TTT AAC AAT GGG ACT CAC AGT TAC CAC GAA GAA GAA GAC GCT ATA GGC      306
181      Phe Asn Asn Gly Thr His Ser Tyr His Glu Glu Glu Asp Ala Ile Gly
182      60 65 70
183
184      AAC GAA AAG GAA CAA AGA AAA GAA GAC AAC AGA GGA GAG CTT CCG CTA      354
185      Asn Glu Lys Glu Gln Arg Lys Glu Asp Asn Arg Gly Glu Leu Pro Leu
186      75 80 85
187
188      GTG GAC TGG TTT AAT CCT GAG AAA CGC CCA GAG GTC GTG ACC ATA ACC      402
189      Val Asp Trp Phe Asn Pro Glu Lys Arg Pro Glu Val Val Thr Ile Thr
190      90 95 100
191
192      AGA TGG AAG GCT CCA GTG GTA TGG GAA GGC ACT TAC AAC AGA GCC GTC      450
193      Arg Trp Lys Ala Pro Val Val Trp Glu Gly Thr Tyr Asn Arg Ala Val
194      105 110 115 120
195
196      TTA GAT AAT TAT TAT GCC AAA CAG AAA ATT ACC GTG GGC TTG ACG GTT      498
197      Leu Asp Asn Tyr Tyr Ala Lys Gln Lys Ile Thr Val Gly Leu Thr Val
198      125 130 135
199
200      TTT GCT GTC GGA AGA TAC ATT GAG CAT TAC TTG GAG GAG TTC TTA ATA      546
201      Phe Ala Val Gly Arg Tyr Ile Glu His Tyr Leu Glu Glu Phe Leu Ile
202      140 145 150
203
204      TCT GCA AAT ACA TAC TTC ATG GTT GGC CAC AAA GTC ATC TTT TAC ATC      594
205      Ser Ala Asn Thr Tyr Phe Met Val Gly His Lys Val Ile Phe Tyr Ile

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RAW SEQUENCE LISTING PATENT APPLICATION US/08/984,900

DATE: 05/06/98
TIME: 12:12:23

INPUT SET: S25558.raw

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209	Met Val Asp Asp Ile Ser Arg Met Pro Leu Ile Glu Leu Gly Pro Leu			
210	170	175	180	
211				
212	CGT TCC TTT AAA GTG TTT GAG ATC AAG TCC GAG AAG AGG TGG CAA GAC			690
213	Arg Ser Phe Lys Val Phe Glu Ile Lys Ser Glu Lys Arg Trp Gln Asp			
214	185	190	195	200
215				
216	ATC AGC ATG ATG CGC ATG AAG ACC ATC GGG GAG CAC ATC CTG GCC CAC			738
217	Ile Ser Met Met Arg Met Lys Thr Ile Gly Glu His Ile Leu Ala His			
218	205	210	215	
219				
220	ATC CAG CAC GAG GTG GAC TTC CTC TTC TGC ATG GAC GTG GAT CAG GTC			786
221	Ile Gln His Glu Val Asp Phe Leu Phe Cys Met Asp Val Asp Gln Val			
222	220	225	230	
223				
224	TTC CAA AAC AAC TTT GGG GTG GAG ACC CTG GGC CAG TCG GTG GCT CAG			834
225	Phe Gln Asn Asn Phe Gly Val Glu Thr Leu Gly Gln Ser Val Ala Gln			
226	235	240	245	
227				
228	CTA CAG GCC TGG TGG TAC AAG GCA CAT CCT GAC GAG TTC ACC TAC GAG			882
229	Leu Gln Ala Trp Trp Tyr Lys Ala His Pro Asp Glu Phe Thr Tyr Glu			
230	250	255	260	
231				
232	AGG CGG AAG GAG TCC GCA GCC TAC ATT CCG TTT GGC CAG GGG GAT TTT			930
233	Arg Arg Lys Glu Ser Ala Ala Tyr Ile Pro Phe Gly Gln Gly Asp Phe			
234	265	270	275	280
235				
236	TAT TAC CAC GCA GCC ATT TTT GGG GGA ACA CCC ACT CAG GTT CTA AAC			978
237	Tyr Tyr His Ala Ala Ile Phe Gly Gly Thr Pro Thr Gln Val Leu Asn			
238	285	290	295	
239				
240	ATC ACT CAG GAG TGC TTC AAG GGA ATC CTC CAG GAC AAG GAA AAT GAC			1026
241	Ile Thr Gln Glu Cys Phe Lys Gly Ile Leu Gln Asp Lys Glu Asn Asp			
242	300	305	310	
243				
244	ATA GAA GCC GAG TGG CAT GAT GAA AGC CAT CTA AAC AAG TAT TTC CTT			1074
245	Ile Glu Ala Glu Trp His Asp Glu Ser His Leu Asn Lys Tyr Phe Leu			
246	315	320	325	
247				
248	CTC AAC AAA CCC ACT AAA ATC TTA TCC CCA GAA TAC TGC TGG GAT TAT			1122
249	Leu Asn Lys Pro Thr Lys Ile Leu Ser Pro Glu Tyr Cys Trp Asp Tyr			
250	330	335	340	
251				
252	CAT ATA GGC ATG TCT GTG GAT ATT AGG ATT GTC AAG ATA GCT TGG CAG			1170
253	His Ile Gly Met Ser Val Asp Ile Arg Ile Val Lys Ile Ala Trp Gln			
254	345	350	355	360
255				
256	AAA AAA GAG TAT AAT TTG GTT AGA AAT AAC ATC T GACTTTAAAT			1214
257	Lys Lys Glu Tyr Asn Leu Val Arg Asn Asn Ile			
258	365	370		

RAW SEQUENCE LISTING PATENT APPLICATION US/08/984,900

DATE: 05/06/98
TIME: 12:12:25

INPUT SET: S25558.raw

***** PREVIOUSLY ERRORED SEQUENCES - EDITED *****

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150 (2) INFORMATION FOR SEQ ID NO:7:
151
152 (i) SEQUENCE CHARACTERISTICS:
153 (A) LENGTH: 1412 base pairs
154 (B) TYPE: nucleic acid
155 (C) STRANDEDNESS: single
156 (D) TOPOLOGY: linear
157
158 (ii) MOLECULE TYPE: DNA
159
160 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
161
162 AGCCCTGCCT CCTTCTGCAG AGCAGAGCTC ACTAGAACTT GTTTCGCCTT TTA CTCTGGG 60
163
164 GGGAGAGAAG CAGAGGATGA GGAGAAAATA ATG AAT GTC AAA GGA AGA GTG GTT 114
165 Met Asn Val Lys Gly Arg Val Val
166 1 5
167
168 CTG TCA ATG CTG CTT GTC TCA ACT GTA ATG GTT GTG TTT TGG GAA TAC 162
169 Leu Ser Met Leu Leu Val Ser Thr Val Met Val Val Phe Trp Glu Tyr
170 10 15 20
171
172 ATC AAC AGC CCA GAA GGT TCT TTG TTC TGG ATA TAC CAG TCA AAA AAC 210
173 Ile Asn Ser Pro Glu Gly Ser Leu Phe Trp Ile Tyr Gln Ser Lys Asn
174 25 30 35 40
175
176 CCA GAA GTT GGC AGC AGT GCT CAG AGG GGC TGG TGG TTT CCG AGC TGG 258
177 Pro Glu Val Gly Ser Ser Ala Gln Arg Gly Trp Trp Phe Pro Ser Trp
178 45 50 55
179
180 TTT AAC AAT GGG ACT CAC AGT TAC CAC GAA GAA GAA GAC GCT ATA GGC 306
181 Phe Asn Asn Gly Thr His Ser Tyr His Glu Glu Glu Asp Ala Ile Gly
182 60 65 70
183
184 AAC GAA AAG GAA CAA AGA AAA GAA GAC AAC AGA GGA GAG CTT CCG CTA 354
185 Asn Glu Lys Glu Gln Arg Lys Glu Asp Asn Arg Gly Glu Leu Pro Leu
186 75 80 85
187
188 GTG GAC TGG TTT AAT CCT GAG AAA CGC CCA GAG GTC GTG ACC ATA ACC 402
189 Val Asp Trp Phe Asn Pro Glu Lys Arg Pro Glu Val Val Thr Ile Thr
190 90 95 100
191
192 AGA TGG AAG GCT CCA GTG GTA TGG GAA GGC ACT TAC AAC AGA GCC GTC 450
193 Arg Trp Lys Ala Pro Val Val Trp Glu Gly Thr Tyr Asn Arg Ala Val
194 105 110 115 120
195
196 TTA GAT AAT TAT TAT GCC AAA CAG AAA ATT ACC GTG GGC TTG ACG GTT 498

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RAW SEQUENCE LISTING PATENT APPLICATION US/08/984,900

DATE: 05/06/98
TIME: 12:12:26

INPUT SET: S25558.raw

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199																	
200	TTT	GCT	GTC	GGA	AGA	TAC	ATT	GAG	CAT	TAC	TTG	GAG	GAG	TTC	TTA	ATA	546
201	Phe	Ala	Val	Gly	Arg	Tyr	Ile	Glu	His	Tyr	Leu	Glu	Glu	Phe	Leu	Ile	
202				140					145					150			
203																	
204	TCT	GCA	AAT	ACA	TAC	TTC	ATG	GTT	GGC	CAC	AAA	GTC	ATC	TTT	TAC	ATC	594
205	Ser	Ala	Asn	Thr	Tyr	Phe	Met	Val	Gly	His	Lys	Val	Ile	Phe	Tyr	Ile	
206			155					160					165				
207																	
208	ATG	GTG	GAT	GAT	ATC	TCC	AGG	ATG	CCT	TTG	ATA	GAG	CTG	GGT	CCT	CTG	642
209	Met	Val	Asp	Asp	Ile	Ser	Arg	Met	Pro	Leu	Ile	Glu	Leu	Gly	Pro	Leu	
210		170					175					180					
211																	
212	CGT	TCC	TTT	AAA	GTG	TTT	GAG	ATC	AAG	TCC	GAG	AAG	AGG	TGG	CAA	GAC	690
213	Arg	Ser	Phe	Lys	Val	Phe	Glu	Ile	Lys	Ser	Glu	Lys	Arg	Trp	Gln	Asp	
214	185					190					195					200	
215																	
216	ATC	AGC	ATG	ATG	CGC	ATG	AAG	ACC	ATC	GGG	GAG	CAC	ATC	CTG	GCC	CAC	738
217	Ile	Ser	Met	Met	Arg	Met	Lys	Thr	Ile	Gly	Glu	His	Ile	Leu	Ala	His	
218					205					210					215		
219																	
220	ATC	CAG	CAC	GAG	GTG	GAC	TTC	CTC	TTC	TGC	ATG	GAC	GTG	GAT	CAG	GTC	786
221	Ile	Gln	His	Glu	Val	Asp	Phe	Leu	Phe	Cys	Met	Asp	Val	Asp	Gln	Val	
222				220					225					230			
223																	
224	TTC	CAA	AAC	AAC	TTT	GGG	GTG	GAG	ACC	CTG	GGC	CAG	TCG	GTG	GCT	CAG	834
225	Phe	Gln	Asn	Asn	Phe	Gly	Val	Glu	Thr	Leu	Gly	Gln	Ser	Val	Ala	Gln	
226			235					240					245				
227																	
228	CTA	CAG	GCC	TGG	TGG	TAC	AAG	GCA	CAT	CCT	GAC	GAG	TTC	ACC	TAC	GAG	882
229	Leu	Gln	Ala	Trp	Trp	Tyr	Lys	Ala	His	Pro	Asp	Glu	Phe	Thr	Tyr	Glu	
230		250					255					260					
231																	
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233	Arg	Arg	Lys	Glu	Ser	Ala	Ala	Tyr	Ile	Pro	Phe	Gly	Gln	Gly	Asp	Phe	
234	265					270					275				280		
235																	
236	TAT	TAC	CAC	GCA	GCC	ATT	TTT	GGG	GGA	ACA	CCC	ACT	CAG	GTT	CTA	AAC	978
237	Tyr	Tyr	His	Ala	Ala	Ile	Phe	Gly	Gly	Thr	Pro	Thr	Gln	Val	Leu	Asn	
238				285						290					295		
239																	
240	ATC	ACT	CAG	GAG	TGC	TTC	AAG	GGA	ATC	CTC	CAG	GAC	AAG	GAA	AAT	GAC	1026
241	Ile	Thr	Gln	Glu	Cys	Phe	Lys	Gly	Ile	Leu	Gln	Asp	Lys	Glu	Asn	Asp	
242				300					305					310			
243																	
244	ATA	GAA	GCC	GAG	TGG	CAT	GAT	GAA	AGC	CAT	CTA	AAC	AAG	TAT	TTC	CTT	1074
245	Ile	Glu	Ala	Glu	Trp	His	Asp	Glu	Ser	His	Leu	Asn	Lys	Tyr	Phe	Leu	
246			315					320					325				
247																	
248	CTC	AAC	AAA	CCC	ACT	AAA	ATC	TTA	TCC	CCA	GAA	TAC	TGC	TGG	GAT	TAT	1122
249	Leu	Asn	Lys	Pro	Thr	Lys	Ile	Leu	Ser	Pro	Glu	Tyr	Cys	Trp	Asp	Tyr	

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/984,900DATE: 05/06/98
TIME: 12:12:27

INPUT SET: S25558.raw

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251				
252	CAT ATA GGC ATG TCT GTG GAT ATT AGG ATT GTC AAG ATA GCT TGG CAG			1170
253	His Ile Gly Met Ser Val Asp Ile Arg Ile Val Lys Ile Ala Trp Gln			
254	345	350	355	360
255				
256	AAA AAA GAG TAT AAT TTG GTT AGA AAT AAC ATC T GACTTTAAAT			1214
257	Lys Lys Glu Tyr Asn Leu Val Arg Asn Asn Ile			
258		365	370	
259				
260	TGTGCCAGCA GTTTTCTGAA TTTGAAAGAG TATTACTCTG GCTACTTCCT CAGAGAAGTA			1274
261				
262	GCACTTAATT TTAACTTTTA AAAAAATACT AACAAAATAC CAACACAGTA AGTACATATT			1334
263				
264	ATTCTTCCTT GCAACTTTGA GCCTTGTCAA ATGGGAGAAT GACTCTGTGG TAATCAGATG			1394
265				
266	TAAATTCCCA GTGATTTT			1412
267				
268				

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION *US/08/984,900*

DATE: 05/06/98
TIME: 12:12:28

INPUT SET: S25558.raw

Line

Error

Original Text

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/984,900DATE: 05/06/98
TIME: 10:20:55

INPUT SET: S25558.raw

This Raw Listing contains the General
Information Section and those Sequences
containing ERRORS.

SEQUENCE LISTING

(1) General Information:

- (i) APPLICANT: d'Apice, Anthony J.F.
Pearse, Martin J.
Robins, Allan J.
Crawford, Robert J.
Rathjen, Peter D.

Does Not Comply
Corrected Diskette Needed

- (ii) TITLE OF INVENTION: MATERIALS AND METHODS FOR MANAGEMENT OF
HYPERACUTE REJECTION IN HUMAN XENOTRANSPLANTATION

- (iii) NUMBER OF SEQUENCES: 33

(iv) CORRESPONDENCE ADDRESS:

- (A) ADDRESSEE: Fish & Richardson
(B) STREET: 120 South Sixth Street, Suite 2500
(C) CITY: Minneapolis
(D) STATE: MN
(E) COUNTRY: USA
(F) ZIP: 55402

(v) COMPUTER READABLE FORM:

- (A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30B

(vi) CURRENT APPLICATION DATA:

- (A) APPLICATION NUMBER: US 08/378,617
(B) FILING DATE: 26-JAN-1995
(C) CLASSIFICATION:

(vi) Pick APP DATA:

(viii) ATTORNEY/AGENT INFORMATION:

- (A) NAME: Ellinger, Mark S.
(B) REGISTRATION NUMBER: 34,812
(C) REFERENCE/DOCKET NUMBER: 06868/005001

(ix) TELECOMMUNICATION INFORMATION:

- (A) TELEPHONE: (612) 335-5070
(B) TELEFAX: (612) 288-9696

--> ERRORED SEQUENCES FOLLOW:

RAW SEQUENCE LISTING PATENT APPLICATION *US/08/984,900*

DATE: 05/06/98
TIME: 10:20:56

INPUT SET: S25558.raw

146 (2) INFORMATION FOR SEQ ID NO:7:

147

148 (i) SEQUENCE CHARACTERISTICS:

--> 149 (A) LENGTH: 1412 base pairs

150 (B) TYPE: nucleic acid

151 (C) STRANDEDNESS: single

152 (D) TOPOLOGY: linear

153

154 (ii) MOLECULE TYPE: DNA

155

156 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

157

158 AGCCCTGCCT CCTTCTGCAG AGCAGAGCTC ACTAGAACTT GTTTCGCCTT TTACTCTGGG 60

159

160 GGGAGAGAAG CAGAGGATGA GGAGAAAATA ATG AAT GTC AAA GGA AGA GTG GTT 114

161

Met Asn Val Lys Gly Arg Val Val

162

1

5

163

164 CTG TCA ATG CTG CTT GTC TCA ACT GTA ATG GTT GTG TTT TGG GAA TAC 162

165

Leu Ser Met Leu Leu Val Ser Thr Val Met Val Val Phe Trp Glu Tyr

166

10

15

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167

168 ATC AAC AGC CCA GAA GGT TCT TTG TTC TGG ATA TAC CAG TCA AAA AAC 210

169

Ile Asn Ser Pro Glu Gly Ser Leu Phe Trp Ile Tyr Gln Ser Lys Asn

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172 CCA GAA GTT GGC AGC AGT GCT CAG AGG GGC TGG TGG TTT CCG AGC TGG 258

173

Pro Glu Val Gly Ser Ser Ala Gln Arg Gly Trp Trp Phe Pro Ser Trp

174

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55

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176 TTT AAC AAT GGG ACT CAC AGT TAC CAC GAA GAA GAA GAC GCT ATA GGC 306

177

Phe Asn Asn Gly Thr His Ser Tyr His Glu Glu Glu Asp Ala Ile Gly

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181

Asn Glu Lys Gly Glu Gln Arg Lys Glu Asp Asn Arg Gly Glu Leu Pro Leu

182

75

80

85

GTG GAC TGG TTT AA

183

Val Asp Trp Phe Asn Pro Glu Lys Arg Pro Glu Val Val Thr Ile Thr

184

90

95

100

185

--> 186 AGA TGG AAG GCT CCA GTG GTA TGG GAA GGC ACT TAC AAC AGA GCC GTC 450

187

Arg Trp Lys Ala Pro Val Val Trp Glu Gly Thr Tyr Asn Arg Ala Val

188

105

110

115

120

189

190 TTA GAT AAT TAT TAT GCC AAA CAG AAA ATT ACC GTG GGC TTG ACG GTT 498

191

Leu Asp Asn Tyr Tyr Ala Lys Gln Lys Ile Thr Val Gly Leu Thr Val

192

125

130

135

193

194 TTT GCT GTC GGA AGA TAC ATT GAG CAT TAC TTG GAG GAG TTC TTA ATA 546

195

Phe Ala Val Gly Arg Tyr Ile Glu His Tyr Leu Glu Glu Phe Leu Ile

196

140

145

150

197

198 TCT GCA AAT ACA TAC TTC ATG GTT GGC CAC AAA GTC ATC TTT TAC ATC 594

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RAW SEQUENCE LISTING PATENT APPLICATION US/08/984,900

DATE: 05/06/98
TIME: 10:20:57

INPUT SET: S25558.raw

199	Ser	Ala	Asn	Thr	Tyr	Phe	Met	Val	Gly	His	Lys	Val	Ile	Phe	Tyr	Ile	
200			155					160					165				
201																	
202	ATG	GTG	GAT	GAT	ATC	TCC	AGG	ATG	CCT	TTG	ATA	GAG	CTG	GGT	CCT	CTG	642
203	Met	Val	Asp	Asp	Ile	Ser	Arg	Met	Pro	Leu	Ile	Glu	Leu	Gly	Pro	Leu	
204		170					175					180					
205																	
206	CGT	TCC	TTT	AAA	GTG	TTT	GAG	ATC	AAG	TCC	GAG	AAG	AGG	TGG	CAA	GAC	690
207	Arg	Ser	Phe	Lys	Val	Phe	Glu	Ile	Lys	Ser	Glu	Lys	Arg	Trp	Gln	Asp	
208	185					190					195					200	
209																	
210	ATC	AGC	ATG	ATG	CGC	ATG	AAG	ACC	ATC	GGG	GAG	CAC	ATC	CTG	GCC	CAC	738
211	Ile	Ser	Met	Met	Arg	Met	Lys	Thr	Ile	Gly	Glu	His	Ile	Leu	Ala	His	
212					205					210					215		
213																	
214	ATC	CAG	CAC	GAG	GTG	GAC	TTC	CTC	TTC	TGC	ATG	GAC	GTG	GAT	CAG	GTC	786
215	Ile	Gln	His	Glu	Val	Asp	Phe	Leu	Phe	Cys	Met	Asp	Val	Asp	Gln	Val	
216				220					225					230			
217																	
218	TTC	CAA	AAC	AAC	TTT	GGG	GTG	GAG	ACC	CTG	GGC	CAG	TCG	GTG	GCT	CAG	834
219	Phe	Gln	Asn	Asn	Phe	Gly	Val	Glu	Thr	Leu	Gly	Gln	Ser	Val	Ala	Gln	
220			235					240					245				
221																	
222	CTA	CAG	GCC	TGG	TGG	TAC	AAG	GCA	CAT	CCT	GAC	GAG	TTC	ACC	TAC	GAG	882
223	Leu	Gln	Ala	Trp	Trp	Tyr	Lys	Ala	His	Pro	Asp	Glu	Phe	Thr	Tyr	Glu	
224		250					255					260					
225																	
226	AGG	CGG	AAG	GAG	TCC	GCA	GCC	TAC	ATT	CCG	TTT	GGC	CAG	GGG	GAT	TTT	930
227	Arg	Arg	Lys	Glu	Ser	Ala	Ala	Tyr	Ile	Pro	Phe	Gly	Gln	Gly	Asp	Phe	
228	265					270					275				280		
229																	
230	TAT	TAC	CAC	GCA	GCC	ATT	TTT	GGG	GGA	ACA	CCC	ACT	CAG	GTT	CTA	AAC	978
231	Tyr	Tyr	His	Ala	Ala	Ile	Phe	Gly	Gly	Thr	Pro	Thr	Gln	Val	Leu	Asn	
232					285					290					295		
233																	
234	ATC	ACT	CAG	GAG	TGC	TTC	AAG	GGA	ATC	CTC	CAG	GAC	AAG	GAA	AAT	GAC	1026
235	Ile	Thr	Gln	Glu	Cys	Phe	Lys	Gly	Ile	Leu	Gln	Asp	Lys	Glu	Asn	Asp	
236				300					305					310			
237																	
238	ATA	GAA	GCC	GAG	TGG	CAT	GAT	GAA	AGC	CAT	CTA	AAC	AAG	TAT	TTC	CTT	1074
239	Ile	Glu	Ala	Glu	Trp	His	Asp	Glu	Ser	His	Leu	Asn	Lys	Tyr	Phe	Leu	
240			315					320					325				
241	CTC	AAC	AAA	CCC	ACT	AAA	ATC	TTA	TCC	CCA	GAA	TAC	TGC	TGG	GAT	TAT	1122
242	Leu	Asn	Lys	Pro	Thr	Lys	Ile	Leu	Ser	Pro	Glu	Tyr	Cys	Trp	Asp	Tyr	
243		330					335					340					
244																	
245	CAT	ATA	GGC	ATG	TCT	GTG	GAT	ATT	AGG	ATT	GTC	AAG	ATA	GCT	TGG	CAG	1170
246	His	Ile	Gly	Met	Ser	Val	Asp	Ile	Arg	Ile	Val	Lys	Ile	Ala	Trp	Gln	
247	345					350					355					360	
248																	
249	AAA	AAA	GAG	TAT	AAT	TTG	GTT	AGA	AAT	AAC	ATC	T	GACTTTAAAT				1214
250	Lys	Lys	Glu	Tyr	Asn	Leu	Val	Arg	Asn	Asn	Ile						
251					365					370							

RAW SEQUENCE LISTING
PATENT APPLICATION *US/08/984,900*

INPUT SET: S25558.raw

252							
253	TGTGCCAGCA	GTTCCTCTGAA	TTTGAAAGAG	TATTACTCTG	GCTACTTCCT	CAGAGAAGTA	1274
254							
255	GCACTTAATT	TTAACTTTTA	AAAAAATACT	AACAAAATAC	CAACACAGTA	AGTACATATT	1334
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257	ATTCTTCCTT	GCAACTTTGA	GCCTTGTCAA	ATGGGAGAAT	GACTCTGTGG	TAATCAGATG	1394
258							
259	TAAATTCCCA	GTGATTTT					1412
260							
261							

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/984,900

DATE: 05/06/98
TIME: 10:20:59

INPUT SET: S25558.raw

Line	Error	Original Text
31	Wrong application Serial Number	(A) APPLICATION NUMBER: US 08/378,617
149	Entered (1412) and Calc. Seq. Length (1364) differ	(A) LENGTH: 1412 base pairs
186	# of Sequences for line conflicts w/ running total	AGA TGG AAG GCT CCA GTG GTA TGG GAA GCC A